

# Paul F Whelan

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

2,653  
citations

257357

24  
h-index

206029

48  
g-index

117  
all docs

117  
docs citations

117  
times ranked

2521  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using filter banks in Convolutional Neural Networks for texture classification. Pattern Recognition Letters, 2016, 84, 63-69.	2.6	199
2	Image segmentation based on the integration of colour "texture descriptors" A review. Pattern Recognition, 2011, 44, 2479-2501.	5.1	181
3	Experiments in colour texture analysis. Pattern Recognition Letters, 2001, 22, 1161-1167.	2.6	174
4	Segmentation of the Left Ventricle of the Heart in 3-D+t MRI Data Using an Optimized Nonrigid Temporal Model. IEEE Transactions on Medical Imaging, 2008, 27, 195-203.	5.4	148
5	Automatic segmentation of the left ventricle cavity and myocardium in MRI data. Computers in Biology and Medicine, 2006, 36, 389-407.	3.9	130
6	Which pattern? Biasing aspects of planar calibration patterns and detection methods. Pattern Recognition Letters, 2007, 28, 921-930.	2.6	96
7	Projective rectification from the fundamental matrix. Image and Vision Computing, 2005, 23, 643-650.	2.7	94
8	Left-ventricle myocardium segmentation using a coupled level-set with a priori knowledge. Computerized Medical Imaging and Graphics, 2006, 30, 255-262.	3.5	94
9	Fuzzy Spectral and Spatial Feature Integration for Classification of Nonferrous Materials in Hyperspectral Data. IEEE Transactions on Industrial Informatics, 2009, 5, 483-494.	7.2	93
10	CTex "An Adaptive Unsupervised Segmentation Algorithm Based on Color-Texture Coherence. IEEE Transactions on Image Processing, 2008, 17, 1926-1939.	6.0	82
11	Rapid Automated Measurement of Body Fat Distribution from Whole-Body MRI. American Journal of Roentgenology, 2005, 185, 418-423.	1.0	72
12	Evaluation of robustness against rotation of LBP, CCR and ILBP features in granite texture classification. Machine Vision and Applications, 2011, 22, 913-926.	1.7	65
13	3-D Facial Landmark Localization With Asymmetry Patterns and Shape Regression from Incomplete Local Features. IEEE Transactions on Cybernetics, 2015, 45, 1717-1730.	6.2	61
14	Convolutional neural network on three orthogonal planes for dynamic texture classification. Pattern Recognition, 2018, 76, 36-49.	5.1	58
15	Efficient morphological reconstruction: a downhill filter. Pattern Recognition Letters, 2004, 25, 1759-1767.	2.6	55
16	Convective tissue movements play a major role in avian endocardial morphogenesis. Developmental Biology, 2012, 363, 348-361.	0.9	55
17	Calibration and removal of lateral chromatic aberration in images. Pattern Recognition Letters, 2007, 28, 125-135.	2.6	52
18	Intelligent Vision Systems for Industry. , 1997, , .		51

#	ARTICLE	IF	CITATIONS
19	Fully automated segmentation and tracking of the intima media thickness in ultrasound video sequences of the common carotid artery. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 158-77.	1.7	47
20	Computational approach for edge linking. Journal of Electronic Imaging, 2002, 11, 479.	0.5	43
21	A new GVF-based image enhancement formulation for use in the presence of mixed noise. Pattern Recognition, 2010, 43, 2646-2658.	5.1	43
22	A Novel Framework for Cellular Tracking and Mitosis Detection in Dense Phase Contrast Microscopy Images. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 642-653.	3.9	43
23	A bin picking system based on depth from defocus. Machine Vision and Applications, 2003, 13, 234-244.	1.7	42
24	A Novel Model-Based 3D Time Left Ventricular Segmentation Technique. IEEE Transactions on Medical Imaging, 2011, 30, 461-474.	5.4	40
25	Fast colon centreline calculation using optimised 3D topological thinning. Computerized Medical Imaging and Graphics, 2005, 29, 251-258.	3.5	33
26	Precise radial un-distortion of images. , 2004, , .		30
27	Efficient generic calibration method for general cameras with single centre of projection. Computer Vision and Image Understanding, 2010, 114, 220-233.	3.0	24
28	Machine Vision Algorithms in Java. , 2001, , .		23
29	A Fully Automatic CAD-CTC System Based on Curvature Analysis for Standard and Low-Dose CT Data. IEEE Transactions on Biomedical Engineering, 2008, 55, 888-901.	2.5	22
30	Deep Learning in Texture Analysis and Its Application to Tissue Image Classification. , 2017, , 95-129.		22
31	The definitions of three-dimensional landmarks on the human face: an interdisciplinary view. Journal of Anatomy, 2016, 228, 355-365.	0.9	21
32	Quality grading of painted slates using texture analysis. Computers in Industry, 2005, 56, 802-815.	5.7	20
33	A video-rate range sensor based on depth from defocus. Optics and Laser Technology, 2001, 33, 167-176.	2.2	18
34	MRI diffusion-based filtering: a note on performance characterisation. Computerized Medical Imaging and Graphics, 2005, 29, 267-277.	3.5	18
35	Computational approach for depth from defocus. Journal of Electronic Imaging, 2005, 14, 023021.	0.5	17
36	An automatic 2D CAD algorithm for the segmentation of the IMT in ultrasound carotid artery images. , 2009, 2009, 515-9.		17

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37	A Blind Nonlinearity Compensator Using DBSCAN Clustering for Coherent Optical Transmission Systems. Applied Sciences (Switzerland), 2019, 9, 4398.	1.3	17
38	Comparing 3D Descriptors for Local Search of Craniofacial Landmarks. Lecture Notes in Computer Science, 2012, , 92-103.	1.0	16
39	Texture Enhanced Histogram Equalization Using TV-&lt;math>\int_{\Omega}  L  dx dy</math>-Notation="TeX"&gt;{m L}^{1}&lt;/tex>&lt;/math> Image Decomposition. IEEE Transactions on Image Processing, 2013, 22, 3133-3144.	6.0	15
40	Segmenting the Left Ventricle in 3D Using a Coupled ASM and a Learned Non-Rigid Spatial Model. , 2009, , .		15
41	Flexible packing of arbitrary two-dimensional shapes. Optical Engineering, 1993, 32, 3278.	0.5	13
42	The use of 3D surface fitting for robust polyp detection and classification in CT colonography. Computerized Medical Imaging and Graphics, 2006, 30, 427-436.	3.5	13
43	A robust algorithm for detection and classification of traffic signs in video data. , 2012, , .		13
44	Local binary patterns versus signal processing texture analysis: a study from a performance evaluation perspective. Sensor Review, 2012, 32, 149-162.	1.0	13
45	Evaluation of Yogurt Microstructure Using Confocal Laser Scanning Microscopy and Image Analysis. Journal of Food Science, 2015, 80, E1218-28.	1.5	13
46	A generic framework for colour texture segmentation. Sensor Review, 2010, 30, 69-79.	1.0	12
47	Automatic Segmentation of Mitochondria in EM Data Using Pairwise Affinity Factorization and Graph-Based Contour Searching. IEEE Transactions on Image Processing, 2014, 23, 4576-4586.	6.0	12
48	Active-meshes. Pattern Recognition Letters, 2000, 21, 1071-1080.	2.6	11
49	Real-time Registration of Paper Watermarks. Real Time Imaging, 2001, 7, 367-380.	1.6	11
50	Automated packing systems-a systems engineering approach. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1996, 26, 533-544.	3.4	9
51	A Hybrid Approach to Brain Extraction from Premature Infant MRI. Lecture Notes in Computer Science, 2011, , 719-730.	1.0	9
52	Unsupervised mitochondria segmentation using recursive spectral clustering and adaptive similarity models. Journal of Structural Biology, 2013, 184, 401-408.	1.3	8
53	Informatics in Radiology (infoRAD). Radiographics, 2004, 24, 1779-1789.	1.4	7
54	A vision&acircledashbased system for inspecting painted slates. Sensor Review, 2006, 26, 108-115.	1.0	7

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55	A Novel Visual Speech Representation and HMM Classification for Visual Speech Recognition. IPSJ Transactions on Computer Vision and Applications, 2010, 2, 25-38.	4.4	7
56	<title>Automated packing systems: review of industrial implementations</title>. , 1993, , .		6
57	Colour Texture Analysis. , 2008, , 129-163.		6
58	Automation of waste recycling using hyperspectral image analysis. , 2010, , .		6
59	3D Facial Landmark Localization Using Combinatorial Search and Shape Regression. Lecture Notes in Computer Science, 2012, , 32-41.	1.0	6
60	<title>Development of a vision system for the flexible packing of random shapes</title>. , 1992, , .		5
61	Real-time colour recognition in symbolic programming for machine vision systems. Machine Vision and Applications, 1995, 8, 385-398.	1.7	5
62	<title>Automated synthesis, insertion and detection of polyps for CT colonography</title>. , 2003, 4877, 183.		5
63	Informatics in Radiology (infoRAD). Radiographics, 2004, 24, 1193-1202.	1.4	5
64	Integration of feature distributions for colour texture segmentation. , 2004, , .		5
65	A statistical approach for robust polyp detection in CT colonography. , 2005, 2005, 2523-6.		5
66	Automatic seed initialization for the expectation-maximization algorithm and its application in 3D medical imaging. Journal of Medical Engineering and Technology, 2007, 31, 332-340.	0.8	5
67	Adaptive Pre-Filtering Techniques for Colour Image Analysis. , 2007, , .		5
68	Efficient Generic Calibration Method for General Cameras with Single Centre of Projection. , 2007, , .		5
69	Image feature enhancement based on the time-controlled total variation flow formulation. Pattern Recognition Letters, 2009, 30, 314-320.	2.6	5
70	Biologically-inspired data decorrelation for hyper-spectral imaging. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.0	5
71	<title>Robust 3D landmark tracking using trinocular vision</title>. , 2003, , .		4
72	Pose estimation for objects with planar surfaces using eigenimage and range data analysis. Machine Vision and Applications, 2007, 18, 355-365.	1.7	4

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73	Cellular Tracking in Time-Lapse Phase Contrast Images. , 2009, , .		4
74	<title>Automated packing of arbitrary shapes</title>. , 1992, 1615, 77.		3
75	<title>Tracking of facial features using deformable triangles</title>. , 2003, 4877, 138.		3
76	A visual programming environment for machine vision engineers. Sensor Review, 2004, 24, 265-270.	1.0	3
77	Intensity non-uniformity correction in multi-section whole body MRI. , 2005, , .		3
78	A New Manifold Representation for Visual Speech Recognition. , 2007, , .		3
79	Colour saliency-based parameter optimisation for adaptive colour segmentation. , 2009, , .		3
80	Two algorithms for detection of mutually occluding traffic signs. , 2012, , .		3
81	Compensating inaccurate annotations to train 3D facial landmark localization models. , 2013, , .		3
82	A Novel Framework for Tracking In-vitro Cells in Time-lapse Phase Contrast Data. , 2010, , .		3
83	Shape Filtering for False Positive Reduction at Computed Tomography Colonography. Lecture Notes in Computer Science, 2006, 9, 84-92.	1.0	3
84	A Novel Visual Speech Representation and HMM Classification for Visual Speech Recognition. Lecture Notes in Computer Science, 2009, , 398-409.	1.0	3
85	<title>Object recognition using eigenvectors</title>. , 1997, 3208, 85.		2
86	Development of a synthetic phantom for the selection of optimal scanning parameters in CADâ€™CT colonography. Medical Engineering and Physics, 2007, 29, 858-867.	0.8	2
87	Experimentation on the Use of Chromaticity Features, Local Binary Pattern, and Discrete Cosine Transform in Colour Texture Analysis. Lecture Notes in Computer Science, 2003, , 186-192.	1.0	2
88	A Machine Vision System for Quality Grading of Painted Slates. , 2012, , 1175-1200.		2
89	Asymmetry Patterns Shape Contexts to Describe the 3D Geometry of Craniofacial Landmarks. Communications in Computer and Information Science, 2014, , 19-35.	0.4	2
90	Multi-resolution Texture Classification Based on Local Image Orientation. Lecture Notes in Computer Science, 2008, , 688-696.	1.0	2

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91	<title>Application of machine vision technology to the development of aids for the visually impaired</title>. , 1994, , .		1
92	<title>Navigation using self-initializing active contours</title>. , 1997, 3208, 56.		1
93	<title>Robust robotic manipulation</title>. , 1998, 3522, 244.		1
94	<title>Segmentation of the biliary tree in MRCP data</title>. , 2003, , .		1
95	Note on Feature Selection for Polyp Detection in CT Colonography. , 2006, , .		1
96	An active particle-based tracking framework for 2D and 3D time-lapse microscopy images. , 2011, 2011, 6613-8.		1
97	Refining the resolution of craniofacial dysmorphology in bipolar disorder as an index of brain dysmorphogenesis. Psychiatry Research, 2020, 291, 113243.	1.7	1
98	NeatVision: Development Environment for Machine Vision Engineers. , 2012, , 981-1029.		1
99	Basic Machine Vision Techniques. , 2012, , 565-623.		1
100	Real-time colour recognition in symbolic programming for machine vision systems. Machine Vision and Applications, 1995, 8, 385-398.	1.7	1
101	<title>Qualitative model-based diagnosis driven by visual inspection defect data</title>. , 1994, , .		0
102	<title>Ethical, environmental and social issues for machine vision in manufacturing industry</title>. , 1995, , .		0
103	<title>Machine vision and the World Wide Web: design and training aids</title>. , 1997, , .		0
104	The use of neighbourhood intensity comparisons, morphological gradients and Fourier analysis for automated precipitate counting & Pendell'sung fringe analysis in X-ray topography. EPJ Applied Physics, 2004, 27, 443-446.	0.3	0
105	Cost-Effective HPC Clustering for Computer Vision Applications. , 2008, , .		0
106	Capturing Optimal Image Networks for Planar Camera Calibration. , 2011, , .		0
107	Evaluating the performance and correlation of colour invariant local image feature detectors. , 2014, , .		0
108	On the quantitative analysis of craniofacial asymmetry in 3D. , 2015, , .		0

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109	On the projection similarity in line grouping. Pattern Recognition Letters, 2015, 51, 50-56.	2.6	0
110	Removing Pose from Face Images. Lecture Notes in Computer Science, 2008, , 692-702.	1.0	0
111	A New Anticorrelation-Based Spectral Clustering Formulation. Lecture Notes in Computer Science, 2011, , 139-149.	1.0	0
112	Appendix C: Proverbs. , 2012, , 2023-2033.		0
113	<title>Color-to-speech sensory substitution device for the visually impaired</title>. , 1997, , .		0